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H.2
2/96

**American Chemical Services, Inc.
Oversight Summary Reports - 1996
Barrier Wall Alignment/Construction Field Work**

USEPA/ARCS V Oversight Summary

Reporting Period: 1/16/96 to 2/14/96

Black & Veatch Project No.: 71670.660

Site Name/Location: ACS/Griffith, IN

USEPA Work Assignment Manager: Sheri Bianchin

Project Manager: Steve Mrkvicka

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson	4 to 6	PRP Contractor
Environmental & Foundation Drilling	3	Drilling Subcontractor
Giles Engineering	2 to 3	Drilling Subcontractor
Ohmicron	1	Training for field PCB analysis
BVWS	1-3	USEPA Oversight Contractor

Summary of field activities: This report includes oversight of the barrier wall investigation field work, the pilot test cell borings, and production well sampling and inspection.

The barrier wall investigation began with the intention of defining the limits of waste in two distinct onsite and offsite areas. Soil from borings found to contain greater than 10 ppm PCBs or 8,000 ppm total VOCs was classified as waste, based on field analyses of soil samples. A copy of data from a test run of field PCB analyses is attached. A total of 75 borings were installed.

In general, soil borings defined the limits of waste in the offsite area. However, soil borings SB205 and SB214 analyses exceeded waste criteria. SB205 was found to contain total VOCs near 100,000 ppm. An additional boring, SB205a was drilled about 40 feet west of SB205, on the Griffith Landfill access road. Soil samples from SB205a were below waste criteria. SB214 soil was found to contain 10.6 ppm PCBs. A duplicate sample from SB214 was sent to the CLP laboratory to confirm the results. No additional borings were installed near SB214, because borings on the proposed alignment on either side of SB214 were below waste criteria, and the alignment could not be moved further outward.

The proposed onsite barrier wall alignment was altered because soil sample results exceeded waste criteria in several borings. The initial onsite alignment was extended north to the cooling tower system, east to near the eastern fenceline, west to enclose the blending tank farm, and south to be connected with the offsite containment area.

Borings were installed to investigate conditions in the 2 proposed pilot test cells (one onsite cell and one offsite cell.) Four borings were installed for each cell. Zones of liquid waste materials were found in onsite and offsite borings.

ACS's 4 active production wells were sampled, and the 2 inactive production wells were inspected. The pump was allowed to run for approximately 15 minutes at each of the 4 active wells (IW1, IW2, IW3, and IW4) before sampling. The water appeared clear from each of the wells; however, water from IW3 had a sulfurous odor. Inspection of the inactive wells (IW5 and IW6) included measuring PID headspace and water level elevation and attempting to measure the elevation of the bottoms of the wells. The bottoms of the wells were not measured. An obstruction in MW5 prevented the probe from reaching the well bottom. A thin white liquid film was found on the water surface of IW6. The probe was not lowered to the bottom of IW6 to avoid introducing this liquid further into the aquifer.

Problems Encountered/Corrective Actions:

Extreme cold conditions tended to slow work progress. Equipment had to be thawed with torches, and water tanks and lines had to be drained daily.

While drilling soil borings, heaving sands flowed into hollow-stem augers. Drilling with the auger filled with water or bentonite slurry kept sands from flowing into the augers.

Encountering subsurface refuse at the southwestern portion of the offsite area hindered drilling progress. At locations where refuse prevented advancement of drilling, the boring was relocated a few feet until a suitable location was found.

Signature: Matt Malin

Date: 2/22/96

S:\projects\ACS\wos11696.wp5

***** OHMICRON *****

Please Wait 30 Minutes
01-16-96 14:02:49

***** OHMICRON *****

Please Wait 30 Minutes
01-16-96 16:56:46

01-16-96 17:08:43

***** OHMICRON *****

PROTOCOL : PCB

TECH ID : _____
LOT # : _____
EXP DATE: _____

Data Reduct: Lin. Regression
Xformation: Ln/LgtB
Read Mode : Absorbance
Wavelength : 450 nm
Units : PPB

EQUATION OF LINE :

Slope = -0.887
Intercept = 0.643
Corr (r) = 0.9978

Transformed Data :

Conc	Abs
-1.39	1.928
0.00	0.540
1.61	-0.737

Calibrator Data:

Conc	Abs	%CV	Predic
	Diff		%Diff
0.00	0.982		
	0.954		
Mean	0.968	2.1	
0.25	0.861		0.20
	-0.054		-27.9
	0.829		0.28
	0.827		9.6
Mean	0.845	2.8	0.23
	-0.015		-6.4
1.00	0.626		1.05
	0.846		4.4
	0.598		1.20
	0.204		16.9
Mean	0.612	3.2	1.12
	0.123		10.9
5.00	0.323		4.50
	-0.501		-11.1
	0.303		5.00
	-0.003		-0.1
Mean	0.313	4.5	4.74
	-0.261		-5.5

Control Data :

Ctrl# Abs Conc

intercept
Corr (r) = 0.9978

Transformed Data :

Conc	Abs
-1.39	1.928
0.00	0.540
1.61	-0.737

Calibrator Data:

Conc	Abs	%CV	Predic
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0.00	0.982		
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0.25	0.861		0.20
	-0.054		-27.9
	0.829		0.28
	0.827		9.6
Mean	0.845	2.8	0.23
	-0.015		-6.4
1.00	0.626		1.05
	0.046		4.4
	0.598		1.20
	0.204		16.9
Mean	0.612	3.2	1.12
	0.123		10.9
5.00	0.323		4.50
	-0.501		-11.1
	0.303		5.00
	-0.003		-0.1
Mean	0.313	4.5	4.74
	-0.261		-5.5

Control Data :

Ctrl#	Abs	Conc
1	0.400	3.06

ID:-----

Samples Data :

Sp1#	Abs	Conc
1	0.777	0.42

ID:-----

2 0.705 0.68

ID:-----

3 0.510 1.83

ID:-----

4 0.335 4.24

ID:-----

TUE. 11/16/95

0900 ARRIVE ONSITE. MEET TOM FROMAN (ACS). GO TO SITE TRAILER. MONTGOMERY WATSON TREES ARE ONSITE, WITH 2 DRILL CREWS. HEALTH & SAFETY MTG. IS HELD. HOLLY G. (IDEM) IS ONSITE ALSO, ALONG WITH A DISCUSSION OF BARRIER WALL DRILLING. ✓

1100 WALK ONSITE & OFFSITE DRILLING LOCATIONS WITH PETER VAST (H.W.). AN ATV RIG (TRACK-MOUNTED) WILL BE USED FOR OFFSITE BORING LOCATIONS. ✓

1220 GOING OFFSITE FOR LUNCH. ✓

1330 AT ONSITE TRAILER, OMMICRON REP. LEE MULTARK IS GOING THROUGH PCB KIT TRAINING. SHERI BIANCHIN (USEPA) IS ONSITE. ✓

1530 PETER VAST & OTHER MONT. WATSON TREES. HOLD A MTG. TO DISCUSS A FEW ISSUES CONCERNING DRILLING - HEAVING SANDS, BORING NUMBERS, SOMEONE NUMBERING, ETC. ✓

1630 NO DRILLING TO TAKE PLACE TODAY. HOLLY GREIDA (IDEM) AND SHERI BIANCHIN (USEPA) GO OFFSITE. I GO OFFSITE FOR THE DAY. ✓

MAM 11/16/95

WED 1/17/96

Matt Mustard

0730 ARRIVE ONSITE. MONT. WATSON
+ DRILLERS ARE ONSITE. TEMP. 40°F
CALM, FOGGY. DRILLERS ARE ASSEMBLING
EQUIPMENT + H.W. IS CALIBRATING
MONT. EQUIPMENT. ✓

0800 DAVE P. + ENV. # FOUND.
DRILLING CREW HEAD TO ONSITE
DRILLING LOCATION SB101, FURTHEST
WEST BORING ALONG RR TRACKS.

0830 AT OFFSITE TRAILER AREA,
OTHER RIG (THE ATV) IS BEING
DECONNED IN PREPARATION FOR DRILLING.

0900 AT SB101, DRILLING BEGINS.

0910 SB101- SOIL SAMPLES LOOK
DARK, CLAYEY, WITH SOME ODR. ✓
DAVE P. SAYS HE WILL SCREEN THE
SAMPLES WITH THE PID AFTER THE
BORING IS FINISHED. HE IS COLLECTING
2 SABS FROM EACH SPOON: ONE FOR
FIELD SCREENING AND ONE FOR LAB
CONFIRMATION SAMPLING, IF NECESSARY.
IT IS RAINING STEADILY NOW. ✓

1000 SB101- DOWN TO 19½', INTO A
STIFF GRAY CLAY. DAVE P. IS TRYING
TO TAKE PID READINGS OF

MAM 1/17/96

1/17/96

Matt Mustard

25

SAMPLES BUT RAIN IS CAUSING THE
PID TO MALFUNCTION, AND READ 0.
STEADY RAIN CONTINUES. ✓

1010 AT OFFSITE BORING SB201.
HOLE HAS GOTTEN DOWN TO 8', BUT
THEY ARE DRILLING REFUSE; IT IS
BLACK-STAINED SOIL + WIRE.
SB201 IS AT THE SW PORTION OF
THE OFFSITE AREA NEAR THE
FENCE. RAIN CONTINUES. ✓

1025 SB201 ORIGINAL LOCATION
IS LEFT, RIG MOVED ABOUT 5' TO
THE WEST, AND DRILLING BEGINS.

1035 AT SB201 PID IS NOT
FUNCTIONING, DRILLING IS STOPPED
TO ALLOW PAUL (M.W.) TO GET A
REPLACEMENT UNIT. ✓

1055 AT SB102 (ONSITE) BORING
IS DOWN ~ 8'; IT IS LOCATED 25'
SE OF SB101, PARALLEL TO THE RR
TRACKS. SAMPLES FROM ~3' BLS WERE
STAINED AND HAD PETROLEUM ODRS.
PID IS FUNCTIONING BETTER NOW; SOME
PID HTS WERE ~1000 RPM IN UPPER
(~3') DEPTH SAMPLES. SAMPLES LOOK

MAM 1/17/96

WED. 1/17/96

SANDY, RELATIVELY CLEAN AT 8-10' DEPTH. -

1155 AT SB102, BORING IS INTO CLAY AT ~20'. SAMPLES LOOKED SANDY, REL. CLEAN FROM 10-18', WITH SOME FINES, GRAVEL BELOW. BORING IS COMPLETE. -

1205 AT SB201, NEW HOLE HAS ENCOUNTERED REFUSE AGAIN. THEY WILL ABANDON THIS LOCATION... AND DO NO MORE BORINGS HERE BECAUSE FURTHER DISCUSSION IS NECESSARY. SLURRY WALL CANNOT BE INSTALLED IN REFUSE. PHIL SAYS THEY WILL MOVE TO A NEW LOCATION AFTER DECON/LUBA.

1225 DRILLERS BREAKING FOR LUNCH. WILL START NEW BORINGS IN AFTERNOON

1330 DAVE'S CREW E.F.D. IS GOING TO THE ONSITE AREA TO SET UP FOR SB103. PHIL'S CREW - GILES ENGINEERING, IS GETTING READY TO START ANOTHER BORING, BUT HAS TO FINISH DECON FIRST. -

1400 AT TRAILER, POWER WAS OUT FOR MOST OF THE MORNING DUE

MAY 1/17/96

WED. 1/17/96

TO MOISTURE'S EFFECT ON THE GENERATOR. NW HAS NOT BEEN ABLE TO GET THE GC UP AND RUNNING. NO FIELD ANALYSES ARE LIKELY TO TAKE PLACE UNTIL THE END OF THE DAY. -

1430 AT SB103, ONSITE. BORING IS DOWN TO ~12' DEEP. RAIN HAS STOPPED. SAMPLES IN ~3' INTERVAL HAVE BEEN THE DIRTIEST LOOKING IN THIS HOLE, BUT ARE NOT AS DARK AS THE OTHERS (SB101, 102). PID READINGS ~1000 PPM SO FAR. -

1450 SB103 DOWN TO ~19'. GRAY CLAY IS SHOWING UP IN SPOON. SILTY SAND WAS MOSTLY ABOVE THE CLAY. BORING IS COMPLETE, AFTER NEXT SPOON, TO MAKE SURE CLAY IS PRESENT. DAN SAYS HIS CREW WILL NOT DO ANY MORE BORINGS TODAY, BECAUSE GROUTING + DECON WILL TAKE THE REST OF THE DAY. -

1455 AT OFFSITE BORING - SB202 IT IS THE FURTHEST NORTH OF THE 50'-SPACED OFFSITE BORINGS. THEY ARE ENCOUNTERING REFUSE AT ~8' THEN WILL MOVE N. ABOUT 5' 10' AND

MAY 1/17/96

WED. 1/17/96

Matt Mastromali

TRY AGAIN, -

1535 AT SB202A (NEW HOLE). THEY HAVE GOTTEN A NATIVE SAND SAMPLE AT ^{MAN 11/17/96} 8 1/2', AND HAVE NOT GOTTEN ANY MORE REFUSE. THERE WAS SOME PLASTIC IN A SPOON FROM ABOVE THIS LEVEL THOUGH. ✓

1600 AT SB202A, NATIVE SAND STILL SHOWING UP IN SPLIT SPOON @ 13'.

DRILLING CONTINUES -

1640 AT ~~SB202A~~ ^{SB202A}, RETRIEVING 18-20' SPOON; IT HAS BECOME LOCKED IN THE U.S.A. ANNULUS. DRILLERS ARE PULLING THE AUGERS TO FREE THE SPOON. ✓

1715 AT SB202A, AUGERS ARE OUT OF THE HOLE; DRILLERS HAVE FREED THE SPOON + RODS. ✓

1725 AT SB202A, SPLIT SPOON IS GRAY SILT + SAND. THEY WILL RESUME DRILLING TOMORROW MORNING. ✓

1735 AT TRAILER. GC IS READY, 2ND GC IS ALMOST READY. NO SAMPLES HAVE BEEN ANALYZED YET. THE HYDROPHOBIC DYE TEST FROM SB103 @ 19.8'

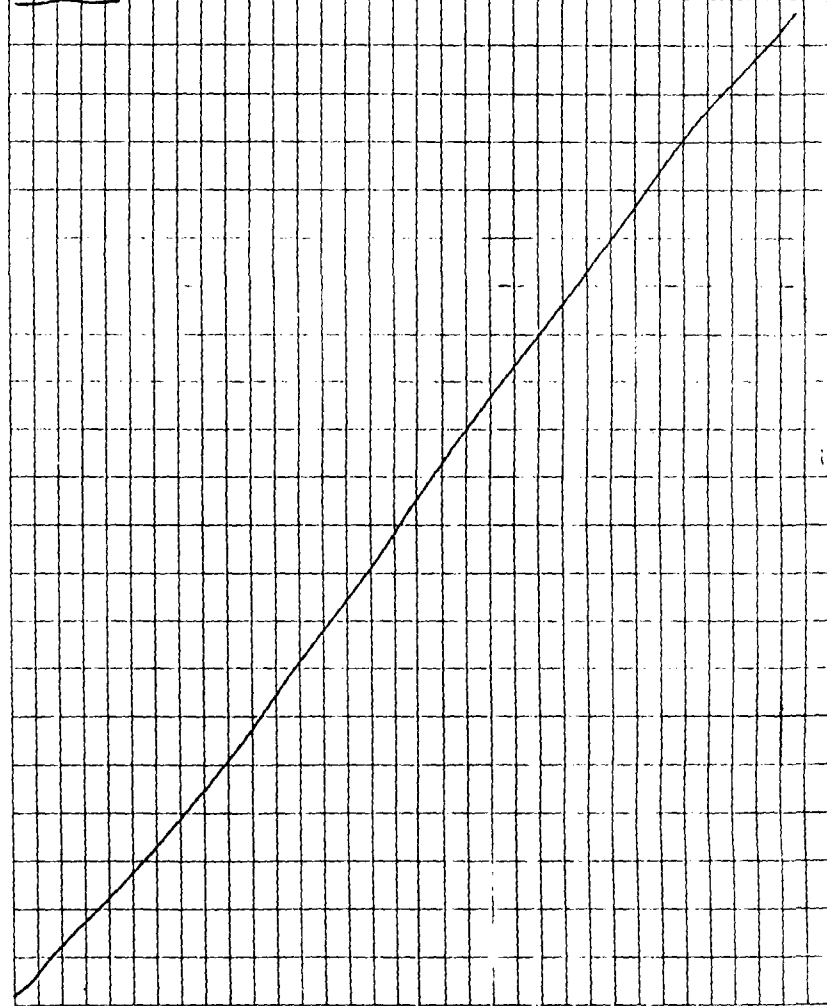
MAN 1/17/96

Matt Mastromali

WED. 1/17/96

WAS POSITIVE. DAVE SAID THEY WILL RUN PCB ANALYSES FOR THE SWILL FROM THIS INTERVAL. ✓

1740 LEAVE SITE FOR THE DAY. ✓



MAN 1/17/96.

Matt Mastenack

~~WET~~ THU 1/18/96

0730 ARRIVE ONSITE. TEMP.
45°-50°F, WIND FROM NE. CLOUDY
SKIES. DRILL CREWS GETTING
READY; GILES ENG. RETURNING
TO SB202A, E.F.D. SETTING UP
AT SB104.

0800 AT SB104, DRILLING BEGINS.

0820 AT SB104, 12" 2 SPOONS
HAD ONLY A FEW INCHES RECOVERY
WOOD, ETC., IN SPOONS INDICATES
DEBRIS IS CLOGGING SPOONS FROM
1 TO 3 and 3½ TO 5½ FEET. ✓

CUTTINGS ARE WET, STAINED.

0830 PHOTO 1 FACING SE. E.F.D.
DRILLERS REMOVING THE 6' TO 8'
SPLIT SPOON. CUTTINGS ARE
STAINED BLACK; SOME ARE VISIBLE
ON PLASTIC IN FOREGROUND. ✓
6' TO 8' SAMPLE IS GRAY SANDY
SILT W/ SOME SMALL GRAVEL,
FAIRLY CLEAN; BETTER RECOVERY. ✓

0845 AT SB202A, DRILLERS ARE
GROUTING THE BORING. PHIL SAID
THEY HIT CLAY AT ~22' ✓

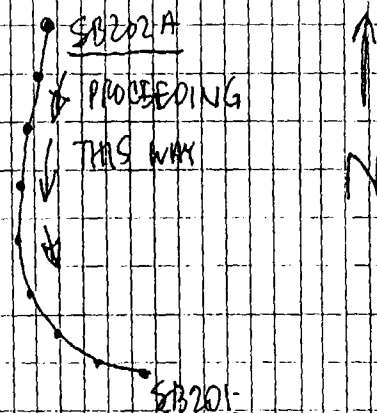
0900 GILES DRILLERS FINISHING AT

MAM 1/18/96

Matt Mastenack

THU 1/18/96

SB202A. PHIL SAYS THEY PLAN TO
MOVE SOUTH ALONG 50'-SPACED
BORINGS, (TOWARD SB201, WHICH WAS
UNSUCCESSFUL BECAUSE OF REFUSE.)



(SW CORNER OF OFFSITE CONTAINMENT
BORING AREA)

0915 AT SB104, BORING IS COMPLETE
AT 21', WHERE STIFF CLAY WAS FOUND.
DRILLERS ARE GETTING READY TO DECON.

1000 O.K. YET, E.F.D. CREW IS WORKING
ON SBIDS, SO FAR, IT HAS BEEN TYPICAL
OF THE BORINGS IN THIS LOCATION: STAINING
& ODORS IN ~2-5' SPOONS, WITH PID READINGS
ALSO REL. HGL (1000+ PPM), SAMPLES LOOKING
CLEANER BELOW 5' TO CLAY. SB103 IS
DOWN TO ~10' ✓

MAM 1/18/96

THU. 1/18/96

Matt Maltman

1030 CALLED KWS OIC., TALKED W/ STEVE
MRKOVICKA & BOB LINTZ, TO REPORT SITE
ACTIVITIES. ✓

1100 AT OFFSITE BORING SB203,
DRILLERS HAVE ENCOUNTERED REFUSE
TO ~ 12', BUT ARE NOW IN A GRAYISH
FINE SAND WHICH APPEARS NATIVE

1115 ONSITE AT SB106, (SB103
IS COMPLETE). STAINING IS
EVIDENT IN CUTTINGS. BORING
DOWN TO 3'. PHOTO 2 FACING SE
DRILLING AT SB106, STAINED CUTTINGS
ARE EVIDENT ON SURFACE. PHOTO 3 FACING
NW. SOIL BORINGS SB106, SPLIT SPOON SAMPLE
FROM 3 1/2' TO 5 1/2' PSBT. ✓

1120 SB106 DOWN TO 8'. SAMPLE
FROM 6' TO 8' LOOKS CLEANER THAN
3 1/2' TO 5 1/2'.

1135 AT SB203, SPLIT SPOON FROM
20' TO 22' 21' TO 23' SPLIT SPOON
HAS CLAY FROM 22' TO 23'. BORING IS
COMPLETE AT 23'. ✓

1200 SB106 COMPLETE: CLAY ENCOUNTERED
AT ~ 20-22'. DRILLERS BREAKING. ✓

1300 DRILLERS WILL DO ONE MORE BORING

MAM 1/18/96

Matt Maltman

3

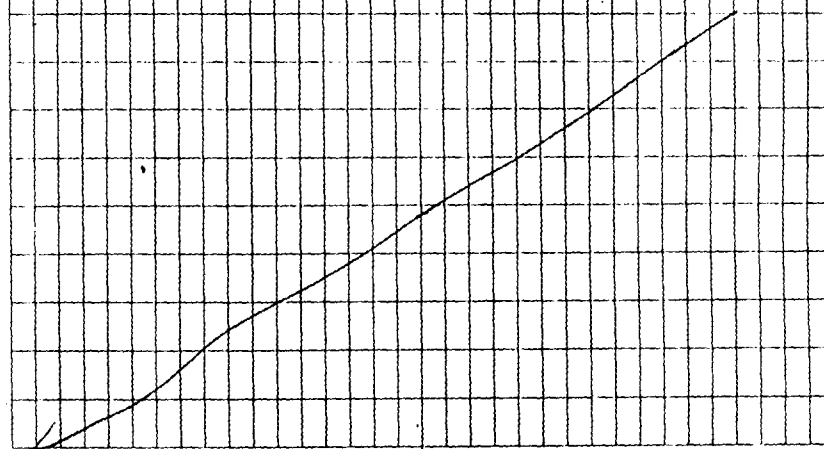
THU. 1/18/96

EACH TODAY. IT IS RAINING FAIRLY HEAVILY.
GILES CREW WILL START SB204 AND
EPD CREW WILL START SB107 AFTER
RECON & GROUTING ARE COMPLETE. ✓

1420 AT SB107 ALONG RR TRACKS
ONSITE RAIN IS FALLING STEADILY, WITH
OCCASIONAL VERY HEAVY BURSTS. PID IS NOT
FUNCTIONING WELL; DATA WILL DO READINGS
LATER. ✓

1500 AT SB204, DRILLING IS PROCEEDING
SLOWLY, HITTING REFUSE TO 12', W/ AUGER
REFUSAL. PRELOCATING BORING. ✓

1530 LEAVING SITE TO RETURN TO THE
OFFICE. DAVE & PHIL WILL GIVE ME FINAL
INPD. ON BORINGS TOMORROW. ✓



MAM 1/18/96

WKL 1/19/96

0715 ARRIVE ONSITE. TEMP. - 7°F
WIND FROM NW, PARTLY CLOUDY SKIES.
EEO GILES DRILLERS ARE ONSITE.

0740 EEO SETTING UP AT SB108
DAVE SAID THEY FINISHED SB107 YEST.
AFTERNOON, WITH NO UNUSUAL FINDINGS.
COLD IS MAKING SETTING UP DIFFICULT.

0820 GILES IS GETTING EQUIPMENT
THAWED, USING TORCHES.

0830 AT SB108, DRILLING BEGINS.

PHIL SAID THAT SB 204 FINISHED
AT 20.8 FEET, WHERE CLAY WAS ENCOUNTERED.
NO GC OR PCB ANALYSES HAVE
BEEN PERFORMED TODAY, BUT MARK WAS
ABLE TO RUN SOME GC LAST NIGHT.

MARK THINKS THAT HE WILL DO A LARGE
BATCH OF PCB SAMPLES AT ONCE.

0930 AT SB108, BORING IS DOWN TO 15'.
PHOTO A FACING S. SPLIT SPOON

SAMPLE FROM SB108. IT IS A 3"
SPOON, BECAUSE MORE VOLUME IS NEEDED
FOR PHYSICAL ANALYSES. THIS GRAYISH
SAND IS TYPICAL OF WHAT WAS FOUND
IN THIS AREA ALONG THE TRACKS.

1000 AT SB205, DRILLERS HAVE

MAM 1/19/96

FRI 1/19/96

North Mountain

35

DRILLED A FEW FEET DOWN, ENCOUNTERING
GRAY SAND w/ ODORS. PID IS NOT FUNCTION-
ING, SO DRILLING IS STOPPED.

1020 SB108 IS COMPLETE. THE CLAY
LAYER DID NOT APPEAR TO HAVE ANY
FREE PHASE LIQUIDS ABOVE IT ON THE
SAND/CLAY INTERFACE. THE GILES ATV
RIG IS STILL SHUT DOWN BECAUSE
PID IS NOT FUNCTIONING. I SPOKE w/
MARK PAULY (IN TALLER). HE SAID HE
WAS ABLE TO RUN 7 VOC ANALYSES LAST
NIGHT. SOME REQUIRED DILUTIONS (X5PM),
BUT MARK HAS NOT FINISHED THE CALCULATIONS
TO DETERMINE THE ACTUAL CONCENTRATIONS.

1040 AT SB205, DOWN TO ~ 8'. FOUL
GARBAGE-TYPE ODOR IS EVIDENT, BUT PID
IS AT BACKGROUND. CUTTINGS ARE BROWN-
STAINED SAND. PHOTO E FACING NW
DRILLING AT SB 205. BROWN-STAINED
CUTTINGS ARE VISIBLE.

1115 ONSITE. EEO RIG IS SET UP ALONG
w. PERIMETER OF BORINGS, ~ 150' N. OF
SB101. IT IS THE 3RD BORING NORTH OF
SB101. IT WILL BE CALLED SB109.

1140 AT SB205, DRILLING HAS

MAM 1/19/96

FRI. 1/19/96

PROCEEDED THROUGH STAINED SAND INTO A CLEANER SAND. ✓

1150 AT SB109, BORING IS DOWN TO ~15'. SO FAR, THIS LOCATION HAS APPEARED LESS STAINED THAN THE BORINGS AT THE AIR TRACKS. THE SURFACE SOIL TO 5' HAS LESS STAINING AND ODOR. ✓

1200 AT SB205, DRILLED TO CLAY AT ~22'. PHOTO 6 FACING NW SPLIT SPOON W/ STIFF GRAY CLAY AT SB205. CLAY INTERFACE APPEARS CLEAN. ✓

1220 AT SB109, DRILLED TO CLAY; SPLIT SPOON AT ~19' SHOWS CLAY W/ INTERFACE CLEAN. ✓

1300 DRILL CREWS BREAKING TO GROUND + DECON. ✓

1350 DAVE, PHIL DECIDE THERE WILL BE NO MORE BORINGS TODAY. ✓

1410 CALLED BUWS OFFICE TO REPORT SITE ACTIVITY TO ROB LANTZ. ✓

1430 AT TRAILER, MARK PAUL CONTINUES PREPPING PCB SAMPLES. HE PLANS TO FINISH RUNNING THE ANALYSES TODAY. ✓

MAM 1/19/96

FRI. 1/19/96

1435 PHOTO 7 IN TRAILER FIELD LAB, 2 GCs ARE PICTURED. ✓

1500 M.W. PERSONNEL ARE CLEANING UP + FINISHING FOR THE DAY. MARK WILL REMAIN TO RUN VOC + PCB ANALYSES. ✓

1510 OFFSITE FOR THE DAY. ✓

MAM 1/19/96

MON 1/22/96

0945 ARRIVE ONSITE. TEMP. ~ 40°F
WIND FROM SW., CLEAR SKIES. MW
PERSONNEL PETER VAGT, DANEPIECZYNSKI,
PHIL SMITH ARE ONSITE. ALSO A
NEW FIELD TECH. JOHN, WILL BE
RUNNING FIELD SAMPLES. ✓

1020 LOOKED AT DATA FOR VOCs
FROM FIELD ANALYSES; NONE AT
OR NEAR 8000 PPM; ALL BELOW. SOME
MORE ANALYSES TO BE RUN, THOUGH.
PCB ANALYSES ARE COMPLETE, BUT
DILUTION CALCULATIONS ARE NOT DONE.
PETER V. SAYS I CAN GET A COPY
OF DATA WHEN IT IS READY.

1100 DRILLING BEGINS AT
OPPOSITE BORING SB206. —

1130 DOWN TO 17' AT SB206.
SOME PAPER, ETC. IN 12" 10',
BUT NO HEAVY REFUSE. ✓

1145 AT SB206, 19' TO 21' SPOON
IS STUCK IN HOLE; PROBABLY
BEAVING SAND BRIDGED; DRILLERS
PULLING AUGERS. ✓

1225 AT SB206, DOWN TO 23'
STILL IN GRAY SILTY SAND, ✓

11AM 1/22/96

Matt Mantuadi

39

MON 1/22/96

WITH SOME GARBAGE ODOR. PHOTO 8
CLOSE UP OF 21 TO 23' SPLIT
SPOON FROM SB206, CONTAINING
GRAY SILTY SAND. THIS IS TYPICAL
OF THE CONDITIONS AT THIS
DEPTH IN BORINGS IN THIS AREA.

1245 AT SB206, HIT STIFF GRAY
CLAY ~ 24', LOOKS CLEAN & INTER-
FACE. THEY ARE RETRIEVING A
GHEARY TUBE FROM 25 TO 27½'.
BORING COMPLETE. ✓

1310 AT SB110, ONSITE. IT IS
THE FURTHEST EAST ONSITE BORING,
LOCATED ~ 150' NW OF THE OFFICE.
DAVE DECIDED TO DRILL HERE
BECAUSE ACS WORKERS WERE
WORKING NEAR THE NW PERIMETER
WHERE THEY PLANNED TO DRILL.
BORING IS DOWN TO ~ 17', SAMPLES
ARE GRAY SILTY SAND, W/ SOME SOLVENT
ODOR. ✓

1315 AT SB110 DRILLING CONTINUES.
SAMPLES FROM 3-5' AND 5-7' HAD SOME
RUSTY-COLORED STAINING. DAVE SAID
IT HAD A JARNEY TYPE ODOR. ✓

11AM 1/22/96

Matt Mustamarshi

MON. 1/22/96

1345 SB110 DOWN TO 24' SILT/CLAY
AT 22' LOOKS FAIRLY CLEAN - NO
STAINING OBSERVED. DRILLING CONTINUES.

1410 SB110 TO 25', 23' TO 25'
SPLIT SPOON IS STILL A SOFT
SILTY CLAY. BORING WILL NOT BE
ADVANCED ANY FURTHER.

1430 AT OPPOSITE BORING
SB207 BORING IS AT ~15'.
GENERALLY FULL REFUSE, THE
11'-13' SPLIT SPOON WAS
ALMOST ALL WOOD. PHOTO 9
CLOSE UP OF 11'-13' SPLIT
SPOON SAMPLE FROM SB207.
VIRTUALLY ALL WOOD.

1520 AT SB207, DRILLING PROCEEDING
SLOWLY. HEAVING SANDS ARE ENTERING
THE AUGER ANNULUS AND MUST BE
REMOVED W/ A SPLIT SPOON BEFORE
COLLECTING THE ACTUAL SAMPLE
INTERVAL.

1540 SB207 ENCOUNTERING CLAY
~25'. WILL COLLECT ONE MORE SAMPLE
TO CONFIRM.

1600 AT SB111, ~150' SW OF SB110.

MAM. 1/22/96

Matt Mustamarshi

MON. 1/22/96

BORING IS DONE, CLAY ENCOUNTERED
AT 19' 1/2'. NO STAINING EVIDENT.
DRILLERS ARE MIXING GROUT. HIGHEST
PID READINGS (LOWER RANGE ON OVM)
WERE IN UPPER 4'.
1630 CALLED OFFICE + SHERI BLANCHIN
TO REPORT SITE ACTIVITY.
1710 DRILLERS ARE FINISHING DECON.
LEAVE SITE FOR THE DAY.

MAM 1/22/96

TUE 1/23/96

0740 ARRIVE ONSITE. TEMP. ~ 40°F
FOGGY, MISTY, CALM. MW + DRILLERS
ARE PREPARING TO CONTINUE DRILLING
FOR BARRIER WALL INVESTIGATION. EFD
ONSITE, GILES OFFSITE.

0800 AT SB112 AT N. EDGE OF
ONSITE AREA. EFD PG IS DRILLING,
DOWN TO ~4'. SOME ODORS (SOLVENT-
LIKE) ARE EVIDENT. PID IS SHOWING
INTERMITTENTLY HIGH READINGS WHEN
ANGER BRINGS UP SOIL. DRILLER IS
WEARING LEVEL C PROTECTION NOW.

0830 BOB LANTZ (HNU) IS ONSITE.

0900 AT TRAILER, ROBI MET W/
PETE VAGT TO DISCUSS DATA FROM PCB
ANALYSES AND FIELD GC (VOCs). SO FAR 3
BORINGS HAVE HAD HTS > 100PPM FOR
PCBs. AND 1 HTS HAD VOCs > 10000
PPM. TRACER (GEOPROBE) STUDY WILL
START LATER THIS MORNING.

1000 AT SB208 OFFSITE DRILLERS
HAVE ENCOUNTERED CLAY AT 25 1/2
FEET. SOME WOOD, PAPER IN SPOONS
TO ~16' BUT GRAY SAND AFTER THAT,
UNTIL CLAY.

MAN 1/23/96

MAN 1/23/96

43

TUE 1/23/96

1030 AT ONSITE BORING SB112, RIG
HTS SHUT DOWN, BECAUSE AUTO HAMMER IS
BROKEN. DRILLERS ARE WELDING NOW
TO FIX IT. HOLE IS DOWN TO 17'. SOIL
HAD SOME OILY STAINING IN LEVELS TO
~5'. SOME PURPLE STAINING ALSO, AT
DEPTHS OF ~7'. PHOTO 12 FACING W.
PURPLISH MATERIAL IN A JAR FROM
SB112.

1050 AT SB112, DRILLERS ARE DONE
WELDING, WILL BEGIN DRILLING.

1105 SB112 COMPLETE, CLAY HIT AT
14.5'. NO DIAPHRAGM CLAY / SAND
INTERFACE OBSERVED. DRILLERS ARE
PREPARING GROUT TO FILL THE HOLE.
1120 DRILLERS (EFD) TAKING LUNCH.

1230 OFFSITE, GILES CREW HAS FINISHED
SB209. POOR RECOVERY DUE TO REFUSE, IN
SAMPLES TO ~12'. CLAY HIT AT ~28'.
DRILLERS ARE DECONNING ANGERS NOW.

1320 OFFSITE AT SB113, N. OF THE
FIRE POND. DRILLING IS DOWN TO ~
10'. SPLIT SPOON SAMPLES ARE DOWN
TO ~12', WITH SOME OILY SHEEN ON
WATER POURING OUT OF SAMPLER.

MAN 1/23/96

TUE. 1/23/96

1430 AT SB113, CLAY ENCOUNTERED AT 18.5'. NO DNAPL OBSERVED AT CLAY INTERFACE.

1500 AT SB210 NEAR ABANDONED LOCATION SB201. SOME GARBAGE TO ~10', BUT BORING STILL ADVANCED WITH NO DIFFICULTY.

1515 SB210 INTO GRAY SAND. DRILLING CONTINUES. (AT ~20' NOW)

1530 SB210 COMPLETE AT 28'. THE 26' TO 28' SAMPLE WAS ALMOST ALL CLAY. LOOKS CLEAN AT INTERFACE.

1600 AT SB114 50' W. OF SB113. BORING HAS PROCEEDED VERY QUICKLY, SAMPLES HAVE LOOKED FAIRLY CLEAN, NO FREE PHASE LIQUID.

1630 DRILLERS DECONNING, NO MORE BORINGS TO BE DONE TODAY.

1650 CALLED OFFICE TO REPORT SITE ACTIVITY TO S. MICKLIGIA.

1700 ALSO CALLED SHERI BLANCHIN TO REPORT SITE ACTIVITY.

1715 OFFSITE FOR THE DAY.

MAN 1/23/96

Muff Montmau

45

WED. 1/24

0740 ARRIVE ONSITE. TEMP. - 20°F. SPOKE W/ PETER VAST TO CHECK PLANS FOR TODAY. SB101, 106, 107 HAD PCB HTS > 10 PPM, THEY ARE GOING TO CAP FOR CONF.

0800 MW WILL PROB. DRILL SOUTH OF BLENDING FACILITY BLDG. TO TRY TO FIND LIMITS OF PCB HTS, SAYS PETE. ATV PIG WILL GO TO GRIFFITH LANDFILL ROAD, BECAUSE OF HIGH VOCs IN SB205.

0830 AT ONSITE BORING. SB2 SB115 50' SW OF SB114. BORING PROCEEDING OK, SOME ODOORS, BUT NO HIGH PID READINGS.

0920 SB115 COMPLETE. CLAY AT ~20'. LOOKS CLEAN AT INTERFACE.

1000 AT OPPOSITE BORING 2+205A W. OF SB205 (ON GRIFFITH LANDFILL ROAD). BORING IS DOWN TO ~18' HITTING SOME REFUSE - BLACK STAINED WOOD, GLASS, SOME ODOOR, PID AT BACKGROUND, THOUGH. HOLLY & KATHY (IDEM) ARE HERE.

1030 SB211 COMPLETE. CLAY TO ~305'. FIRST IT WAS FIRST HT IN 26.5 TO 28.5

MAN 1/24/96

MAN 1/24/96

WED. 1/24/96

INTERVAL, BUT 28.5' TO 30.5' SAMPLE WAS COLLECTED TO CONFIRM CLAY.

1045 AT SB116, ONSITE. IT IS LOCATED ABOUT 50' E. OF SB113. FINDINGS ARE TYPICAL: SOME DARK STAINING IN 1ST 2 SAMPLES, FAIRLY CLEAN SAND DOWN TO CLAY, AT ~18.5'.

1110 DRILLERS ARE GRADING SB116, WILL PROB. MOVE SW. OF SB101 ~100' AFTER A BREAK.

1300 ONSITE AT SB117, ~50' W. OF SB101. BORING PLACED HERE BECAUSE SB101 HAD PCB HITS > 10 PPM.

1330 AT SB117, SAMPLES HAVE LOOKED LIKE SB01: STAINED BLACK TO ~5' 1/2, GRAY SAND FROM THEREAFTER TO CLAY.

1400 SB117 DONE. CLAY/SAND INTERFACE LOOKED CLEAN.

1445 AT OFFSITE BORING ~~SB1~~ 212. IT IS THE FIRST OF THE 200-FOOT BORINGS SPACED FROM SB210, NORTH.

1515 AT SB218 COMPLEX. CLAY AT ~28', NO REVEGE PROBLEMS, BUT MINOR GARDENS ARE PRESENT.

1600 AT SB118, ONSITE. IT IS

MAN 1/24/96

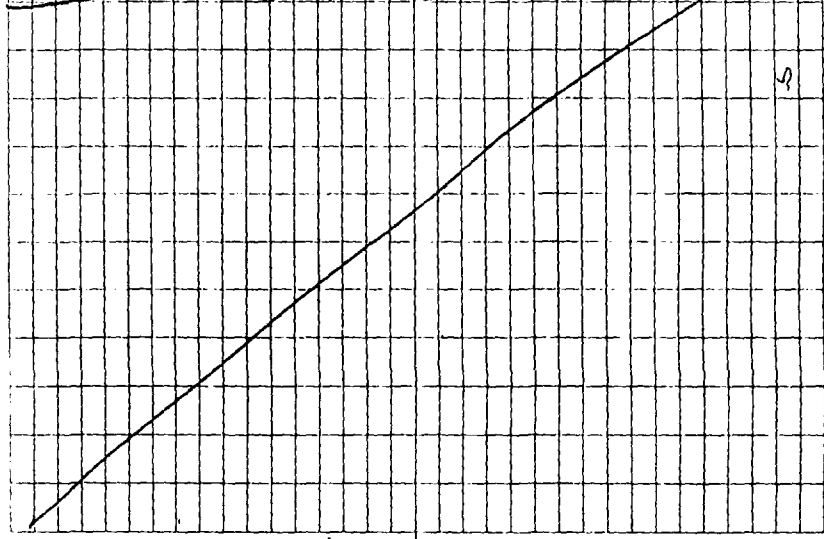
WED. 1/24/96

AT W. PORTION OF THE PERIMETER OF ONSITE BORINGS, 50' S. OF SB10. VERTICAL PROFILE IS TYPICAL: BLACK STAINING TO ~4', SOME ODORS, GRAY SAND W/ ODORS BELOW, HITTING CLAY, AT ~24'.

1615 (NOTE: TOOK PHOTO, FACING SW, OF SB218 AT GRIFFITH LANDFILL; TAKEN AT ~10 AM.)

1630 AT TRAILER, TALKED W/ SHERI BIANCHIN RE: SITE ACTIVITY; SHE WAS ONSITE TO DELIVER RESPONSE TO COMMENTS TO PETER VAGT AND TO CHECK ON PROGRESS.

1700 OFFSITE FOR OXY.



MAN 1/24/96

THU. 1/25/96

0730 ARRIVE ONSITE. TEMP 12° F,
WIND FROM ~~ENE~~ ENE. ROB LANTZ
ARRIVES ALSO. DRILLERS GETTING
READY TO SET UP. MW REPS ARE
ALSO GETTING READY. 2 RIGS + GEOPROBE
WILL BE RUNNING TODAY. ✓

0800 ONSITE, AT SB119, LOCATED ABOUT
50' SW OF SB118, TOWARD SE SECTION
OF BARRIER WALL SPRINGS. ✓

0830 SB119 DOWN TO ~ 3'. SOME
OILY STAINING IN 11 TO 13' SPOON. IN
SAND. ✓

0900 ^{212 MAM 1/25/96} SB213 IN PROGRESS. CLEAN
SAND SO FAR TO ~ 10'. SB213 IS
LOCATED AT SE PERIMETER,
NEAR SIGN FOR ENTRANCE TO
THE IND. PARK LANDFILL. ✓

0915 SB119 COMPLETE, DRILLERS
ARE GRROUTING. ✓

0935 ^{212 MAM 1/25/96} SB213 DOWN TO 17'.
15 TO 17' SAMPLE SHOWS THE
CHANGE FROM CLEAN TO DIRTY
SAMPLE WHICH HAD ODOORS. TOOK
PHOTOS 12 + 13 CLEAN SAMPLE
AT 9-11, CHANGING SAMPLE

MAM 1/25/96

THU. 1/25/96

FROM 15 TO 19, RESPECTIVELY. ✓
SAMPLE HAD A SOUR ODOOR. ✓
1025 AT SB220 S. OF BLENDING
FACILITY BUILDING, THIS BORING IS
PLACED HERE BECAUSE OF ROB HITS
ALONG RAILROAD TRACKS. ✓

1100 SB220 DONE, CLAY ~ 20'. SOME
ODORS, STAINING IN UPPER 3'. SILTY SAND
ABOVE CLAY WAS STAINY, BUT NO ~~ST~~ MAM 1/25/96
FREE PHASE LIQUID. ✓

1110 SB212 DONE ALSO. CLAY WAS HIT
AT ABOUT 29'. SOME STAINING BUT NO
FREE PHASE LIQUID ABOVE CLAY. CLAY
WAS CLEAN IN APPEARANCE. ✓

1120 BOTH RIGS GRROUTING, READY TO DISCON. ✓
1310 AT SB213, ABOUT 15' S. OF 212,
NEAR SIGN FOR INDUSTRIAL PARK.
SAND LOOKS CLEAN AT 1 TO 3' SPOON. ✓

1330 AT SB21 W. OF SB108 ALONG
RR TRACKS THEY ARE IN A GRAY
SAND, ABOUT 15' DEEP. ✓

1420 AT SB21, BORING DONE, CLAY AT
~ 22'. LOOKS CLEAN, BUT ODOORS PRESENT
IN SAND ABOVE CLAY. ✓

1440 SB213 DONE, CLAY AT 31'. ✓

MAM 1/25/96

THU. 1/25/96

THERE WAS SOME DISCOLORATION OF SAND IN SB213, BUT NOT AS SEVERE AS SB212.

1530 DRILLERS (GILES) DECONNING AFTER SB213. EPD BROKE THEIR MAIN LINE WINCH CABLE, WILL HAVE TO REPLACE.

1600 AT SB122, EPD DRILLING ON SW PERIMETER. IT IS LOCATED ~50' N. OF SB117, WHICH WAS PLACED AWAY FROM SB101.

1625 SB122 COMPLETE. IT ENCOUNTERED CLAY AT ~19.5'. FINDINGS WERE TYPICAL = SOME CONTAM. WAS VISIBLE IN 1ST 4 FEET, (STAINING & ODORS) GRADING TO LIGHT GRAY STAINING, GRADING TO STIFF GRAY CLAY.

1650 CALLED SHERI BIANCHIN (EPA) TO REPORT SITE ACTIVITY.

1700 LEFT SITE FOR THE DAY.

MAM 1/25/96

FRI. 1/26/96

0755 ARRIVE ONSITE. TEMP. 30°F, CLEAR SKIES. BARRIER WALL DRILLING TO CONTINUE TODAY.

0830 MET W/ PETER VAGT (MW) TO UPDATE SOIL BORING FIELD DATA. - ONSITE, PCBs EXCEEDED 10 PPM AT BORINGS SB101, 103, 105, 107, 108, 112, 113, 119, 120. PETER WILL MEET W/ PRPS (BY ONE CALL) TO DISCUSS FURTHER STRATEGIES FOR THE FUTURE BORING. OFFSITE, SB205A DID NOT HAVE NCS > 10000 PPM.

0900 AT SB123, AT W. PERIMETER OF BARRIER WALL BETWEEN SB117 AND SB109. BORING FINDINGS ARE TYPICAL, EXCEPT A SOMEWHAT PROPANE-LIKE ODOR WAS EVIDENT IN SB123 THAT WAS NOT LIKE OTHER BORINGS. THIS ODOR WAS FOUND IN THE 3-5 FOOT DEPTH.

0930 GROUTING SB123, CLAY WAS HIT AT 19.5' DEEP. CLAY/SAND INTERFACE DID NOT SHOW OIL OR STAINING.

0940 OFFSITE SB214 IS DONE MOSTLY CLEAN SAND TO W.T. (~15') THEN SOME STAINING & ODORS. CLAY AT 26.5'.

MAM 1/26/96

12

FRI. 1/26/96

11/11# 14/11# 214

1000 STARTING SB215 AT
FENCELINE IN WOODY AREA.
THEY ARE USING 3" S.S. FOR
GEOTECHNICAL SAMPLING. ✓

1050 AT W.T. AT SB215, SOIL
CHANGES COLOR FROM A LIGHT
BROWN SAND TO A STAINED
GRAY SAND, W/ SOLVENT ODOR.
THIS OCCURS AT ~ 15' B.L.S. ✓

1120 FINISHING SB215, CLAY
AT ~ 29', VERY STIFF. SANDY
FORMATION STAINED ABOVE CLAY.

1140 ONSITE EFD HAS FINISHED
SB214, FINDING CLAY AT ~ 18.5'
IT WAS LOCATED SO. E. OF
SB116. VISUALLY, SAMPLES ARE
RELATIVELY CLEAN. ✓

1150 EFD DRILLING AT SB125.
THEY HAVE HIT AN OLD CORRODATED
PLASTIC WATER LINE; IT IS 1/2" DIA. JUNE
PIEDS 13 + 14 FACING ~~BE~~ CORRODATED
PLASTIC WRAPPED AROUND THE
AUGERS AT SB125. ✓

1210 SB125 LOCATION ABANDONED,
SAMPLES WERE COLLECTED DOWN TO

MAM 1/26/96

"with Martin"

53

FRI. 1/26/96

131 THROUGH. SAMPLES HAD SOME
VARNISH ODORS AND STAINING. THIS
TYPE OF STAINING WAS OBSERVED IN
OTHER BORINGS WHERE PCBs WERE >
10 ppm. ✓

1230 DRILLERS DEPARTING. ✓

1330 NO MORE DRILLING TODAY. PHIL +
DAVE SAID LOWER AQUIFER INVESTIGATION
WILL BEGIN ON MON. WORKING A 5-DAY
SHIFT, THEN STARTING A 10-DAY SHIFT
THE FOLLOWING MON. ✓

1400 LEAVE SITE FOR THE DAY TO GO
TO THE OFFICE. ✓

MAM 1/26/96

MON 29
JAN 29, 1996

0930 ARRIVE ONSITE. BARBER WALL
DRILLING TO CONTINUE TODAY. TEMP. ~
10°F., CLOUDY. GILES (OFFSITE CREW)
IS HERE, BUT THEIR STEAM CLEANER
IS NOT WORKING, SO THEY CAN'T
START DRILLING YET; NEED TO RECON
FIRST.

1030 EFD (ONSITE CREW) IS STUCK
IN BARBER, SO NO DRILLING YET. GILES
STILL WORKING ON STEAM CLEANER.

1230 DRILLING BEGINS. GILES CREW
IS AT SB216 AT NE CORNER OF
OPPOSITE AREA, IN WOODED AREA. EFD
IS DRILLING AT SB125, REDRILLING
THIS BORING BELOW 13', BECAUSE THEY
HIT THE OLD WATER LINE LAST FRI +
COULD NOT CONTINUE.

1340 AT SB216, HITTING CLAY AT 26'.
BORING HAD CLEAN SAND TO W.T.; THEN
SOME STAINING BEGAN. WATER TABLE
WAS AT ~ 15'. STAINING + DOORS DOWN
TO THE CLAY, BUT NOT IN CLAY.

1400 AT SB125 HITTING CLAY AT ~19'.
SOIL WAS STAINED OILY ABOVE CLAY,
BUT NO FREE-PHASE LIQUID SOME

MAN 1/29/96

MON 1/29/96

DOORS ARE EVIDENT ALSO. BORING COMPLETE /
1530 GILES STARTING SB217, AT NE
SITE EDGE. EFD STARTING SB126 AT
THE E. EDGE OF THE ONSITE AREA, ~
50' NW OF SB125.

1600 AT SB126, CLAY HIT AT 19.5'.
SOMEWHAT OILY / STAINED FROM 11/13 SPON.

1630 AT SB217 (OFFSITE) DOWN TO
~17', WATER TABLE ~10' DEEP.
AT W.T., STAINING IS BEGINNING.
CLEAN SAND ABOVE W.T.

1715 SB217 HITTING CLAY AT ~22'.
IT IS VERY STIFF, LOOKS CLEAN. BORING
COMPLETE AT THIS DEPTH.

MAN 1/29/96

MATT MANTON

TUE. 1/20/96

0730 ARRIVE ONSITE. BARRIER WALL DRILLING TO CONTINUE TEMP. -5°F , WIND FROM NW, LOWER AQUIFER INVESTIGATION TO BEGIN, CARTER HELM (L&V) IS ONSITE TO OVERSEE THIS WORK.

0830 GILES DRILLING OFFSITE ON SB218, AT N. EDGE OF THE OFFSITE AREA. EFD AT SB127 AT E. PERIMETER OF ONSITE AREA, DOWN TO $\sim 16'$.

0930 SB127 COMPLETE. CLAY AT $\sim 19.5'$

1000 SB218 COMPLETE, CLAY AT $\sim 14'$.

GRAYISH SAND, ODORS BELOW WATER TABLE

1020 ONSITE, DRILLING AT SB128, STILL @ E. EDGE OF SITE, SOME ODORS, STAINING AT $\sim 8-10'$.

1130 SB128 COMPLETE AT $25.5'$, CLAY AT $24.5'$. SOME STAINING AT $8\frac{1}{2}$ TO $10\frac{1}{2}'$. ONSITE GILES WORKING ON SB219, AT AIN SITE PORTION.

1300 SB219 COMPLETE, SIMILAR TO 218, IN APPEARANCE OF SAMPLES. ONSITE EFD SET UP AT SB129 AT S. EDGE OF BOUNDARY WALL (ABOUT $30'$ S. OF SB120).

MAM 1/30/96

MATT MANTON

TUE. 1/30/96

1440 SB129 COMPLETE. UPPER SAMPLES ($3\frac{1}{2}-5\frac{1}{2}$), ($6-8$) WERE GRAYISH, BUT NO SERIOUS STAINING. CLAY AT $18.5'$.

1500 GILES IS SET UP AT SB220, AT NW EDGE; THIS BORING WAS NOT IN THE CORNER, BUT SLIGHTLY IN FROM THE EDGE TO ROUND OFF THE BARRIER WALL EDGE.

1545 SB220 COMPLETE. CLAY AT $16'$. GRAYISH STAINED SAND BELOW W.T., DOWN TO THE CLAY; CLAY LOOKS CLEAN.

1630 NO MORE WORK TO BE DONE TODAY

1700 CALLED SHERI BIANCHIN TO REPORT SITE ACTIVITY. LEFT FOR DAY.

MAM 1/30/96

FRI. 2/2/96

0830 ARRIVE ONSITE. TEMP. 0°F,
OVERCAST, BARRIER WALL, GEOPROBE,
LOWER AQUIFER INVEST. TO CONTINUE
TODAY. -

0930 SPOKE W/ M.W. BEP, PETER VAGT
TO GET UPDATED ON SITE ACTIVITY. -

(I WAS NOT ONSITE WED. OR THU.) -

OFFSITE BARRIER WALL BORINGS
ARE COMPLETE (NUMBERED TO 222).

BORING # 214 HAD PCE, ABOVE 10
PPM (JUST ABOVE, SO SENT INTO LAB
FOR CONE ^{ANALYSIS} ANALYSIS). -

ALSO, PHIL USED THE AM RIG TO
TRY SOME PILOT TEST CELL BORINGS,
BUT VINYL CHLORIDE WAS ~1.5 PPM
IN THE BREATHING ZONE; WILL

REQUIRE LEVEL B. NO DRILLING WILL
TAKE PLACE TODAY. IFD RIG IS DOWN

ALSO, THE GEOPROBE OPERATOR HAD
CHEST PAINS, SPENT THE NIGHT IN THE
HOSPITAL; NO GEOPROBE TODAY. -

ONSITE, BORINGS UP TO #138 ARE DONE.

1030 NO FURTHER ACTIVITY TO TAKE
PLACE (OTHER THAN SETTING A
WELL W/ ROTASONIC RIG -- COVERED BY

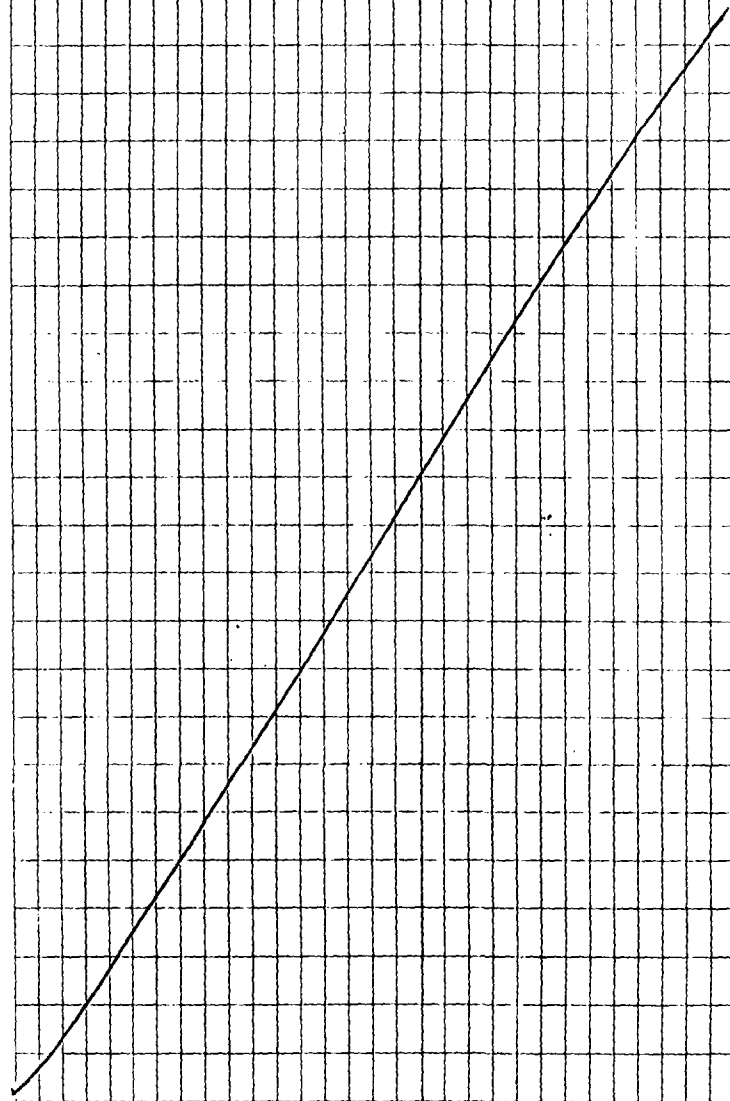
11 AM 2/2/96

Matt Kortuma

59

FRI. 2/2/96

(CARTER HELM) LEAVE SITE!
RETURN TO THE OFFICE. -



11 AM 2/2/96

MATT MARKMAN

MON. 2/5/96

1035 ARRIVE ONSITE. TEMP. $\sim 15^{\circ}\text{F}$,
CLEAR SKIES. NO DRILLING DONE
YET. ONSITE, DAVE WILL RESUME
W/ BORING SB136, STARTED ON
FRIDAY BEFORE RIG BROKE DOWN.
P. VAST (M.W.) HAS SHOWN ME THE
LATEST BARRIER WALL ALIGNMENT.
IT WILL CONNECT OFFSITE &
ONSITE WALLS. WILL DISCUSS W/
PRPs TODAY. EFD DRILLERS ARE
NOT HERE YET. /

1200 EFD DRILLERS ARE AT SB136,
FIXING THE RIG'S WATER PUMP. /

1320 SB136 COMPLETE. CLAY AT 19.5'.
DRILLERS ARE MIXING GROUT. PID READ
FAIRLY HIGH AT CLAY SURFACE. /

1500 EFD DRILLING SB139, ABOUT
50' SW OF SB136, ONSITE. /

1530 SB139, HITTING CLAY AT
18.5'. SOME BLACK STAINING
SEEN AT $\sim 8'$. CLAY IS GRAY
SOFF. /

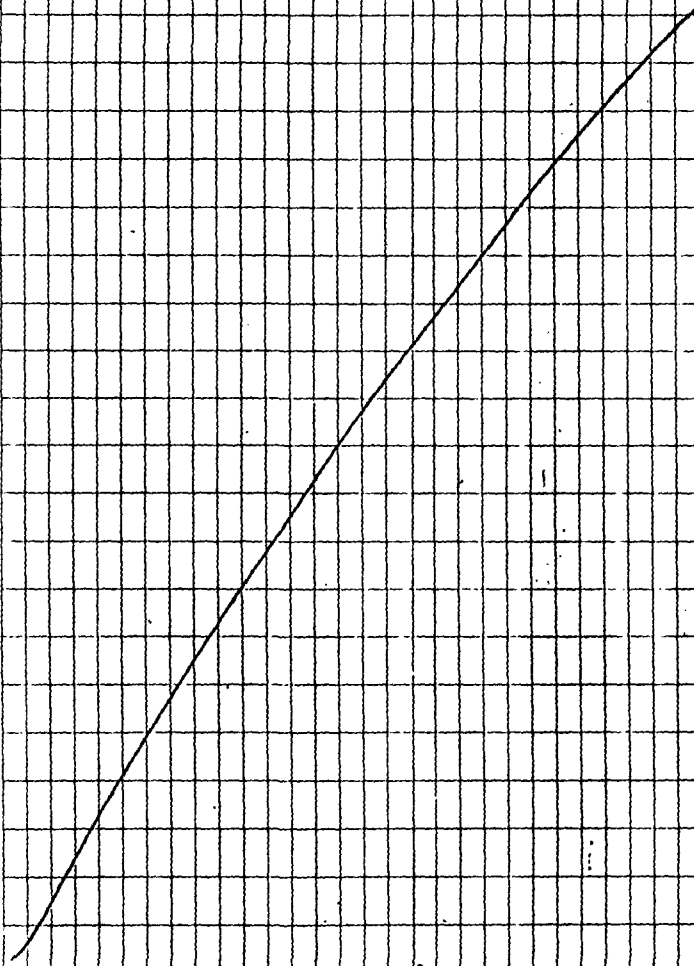
1535 CALLED STEVE BIANCHINI
TO UPDATE HRR CONCERNING
SITE POINT. /

MAN 2/5/96

MATT MARKMAN

MON. 2/5/96

1600 EFD DRILLERS ARE DONE W/
GROUTING SB139, GOING TO DECON.
NO MORE DRILLING TO BE DONE TODAY.
1630 LEAVE SITE FOR THE DAY. /



MAN 2/5/96

TUE. 2/6/96

0800 ARRIVE ONSITE. TEMP. IS ~15°F, CLEAR SKIES, BARRIER WALL DRILLING TO CONTINUE TODAY, ONSITE. ✓

0820 AT SB140, ONSITE, AT W. END OF RR SPUR. CLAY IS HIT AT ~9'. DAVE WILL SUBMIT A SAMPLE AT ~7 TO 9' DEPTH.

0900 EFD DECONNING, GETTING READY FOR ANOTHER HOLE. ✓

0930 EFD IS WORKING ON SB140, IT IS LOCATED ABOUT 50' N OF SB139, ABOUT 30' W. OF SB137. ✓

1005 SB140 IS DONE. RESULTS WERE TYPICAL OF BORINGS IN THIS AREA: GRAY SAND W/ SOME ODORS DOWN TO CLAY. CLAY WAS STIFF + GRAY. ✓

1025 EFD SETTING UP AT SB142 AT NE PORTION OF THE SITE. (AT NE EDGE OF BARRIER WALL BOUNDARY.)

1055 SB142 DOWN TO 10'. SOME SOLID ODORS SHOWN AT ~6 TO 8'. ✓

1120 SB142 IS DONE AT 22.5', CLAY FROM 20.5 TO 22.5. BORING IS ABOUT 30' W. OF SB126. ✓

MAN 2/6/96

TUE. 2/6/96

1145 EFD IS DECONNING, THEN WILL TAKE LUNCH. THEY WILL SET UP AT SB143, NORTH OF SB113, AFTER LUNCH. ✓

1320 AT SB143, ABOUT 20' N OF SB113, BORING IS DOWN TO ABOUT 10'. AT ~5' STAINING IS EVIDENT. CLEAN SAND, GRAY TO DIRTY BLACK. PHOTO IS CLOSE UP OF 3 1/2 TO 5 1/2' INTERVAL FROM SB143, WHERE COLOR CHANGE IS EVIDENT. ✓

1355 SB143 IS COMPLETE. CLAY IS AT 19.5'. ✓

1435 AT IW-1, ACTIVE PRODUCTION WELL LOCATED AT SE PORTION OF THE SITE IN A BRICK BLDG. WHICH IS ABOUT 30' X 10'. PHIL S. HAS SAMPLED AFTER LETTING THE WATER RUN FOR ~15 MINS. PH. TEMP. + COND. WERE STABLE. PHOTO 16. FACING NE. IW-1 LOCATION DESCRIBED ABOVE. WATER LOOKED CLEAR. PHOTO 17. FACING N. IW-1 SAMPLING POINT, AT S. EDGE OF BRICK DUMPHOUSE BUILDING. WATER WAS COLLECTED FROM THE PLASTIC PIPE SHOWN. ✓

MAN 2/6/96

TUE. 2/6/96

Matt Matsumura

1530 PHOTO 18 FACING W.
IW-2, INSIDE BLDG. N. OF THE
OFFICE. PHIL HAS PURGED
SAMPLED. THE WATER LOOKED
CLEAR. ✓

1535 AT SB144, ON THE GRAVEL
ROAD E. OF THE PRODUCTION OFFICE.
DOWN TO 15'. SOME OILY VARNISH-
TYPE MUD IN SAMPLE AT ~10'. ✓

1540 PHIL IS PURGING IW-3. ✓

1600 IW-3 SAMPLING COMPLETE. PHOTO 19
FACING E. IW-3 PRODUCTION WELL
LOCATION. WATER WAS CLEAR BUT HAD
A SULFUROUS ODOR. ✓

SB144 IS COMPLETE AT ~20'. DRILLERS
ARE HEADING TO DECON. ✓

1700 CALLED SRM (B.V.) + SAERI BIANCHINI
AND REPORTED SITE ACTIVITY. PHIL HAS
FINISHED SAMPLING THE 4 PRODUCTION
WELLS. OFFSITE FOR TODAY. ✓

MAM 2/6/96

Matt Matsumura

WED. 2/7/96

0820 ARRIVE ONSITE. TEMP. ~35°F, OVERCAST
SKIES. EFD WILL DRILL TODAY AT THE
OFFSITE PILOT TEST CELL BORINGS. THEY
WILL BE DRILLING IN LEVEL B. PETER
VAST SAID THEY WILL TRY TO FINISH THESE
OFFSITE BORINGS ~~SOON~~ (THERE ARE 4)
BY THURSDAY + RESUME W/ BARRIER WALL
BORINGS ONSITE ON FRIDAY. ✓

0900 EFD IS DRILLING THE FIRST
PILOT TEST CELL BORING, IN LEVEL B.

1030 PILOT TEST CELL BORING IS
DOWN TO 20' ABOUT 8' B.L.S. BROWNISH/
PURPLE LIQUID WAS COATING THE SPLIT
SPOON. PHOTO 20 FACING NE. EFD DRILLING
IN LEVEL B. PHOTO 21 CLOSE-UP OF A
SPLIT SPOON SAMPLE FROM ~10' DEEP,
CONTAINING BROWN LIQUID. ✓

1100 1ST PILOT TEST CELL BORING IS
COMPLETE. CLAY WAS ENCOUNTERED AT ~
27'. THIS BORING WAS NUMBERED SB224.

1110 EFD IS STARTING ON SOIL BORING
SB 225, THE 2ND OFFSITE SOIL BORING
FOR PILOT TEST CELL INVESTIGATION. ✓

1200 AT SB 225, DOWN TO ~12'. THIS
BORING HAS SOME WHITE-COLORED PUTTY.

MAM 2/7/96

⁶ TUE. 2/7/96

LIKE MAT'L, BUT IS MUCH LESS WASTE-FILLED THAN SB224, THE 1ST PILOT TEST CELL BORING.

1300 SB225 COMPLETE. CLAY AT 27', APPEARS TO BE CONFINING THE WASTE. EFD WILL BREAK NOW FOR UNCA.

1400 EFD SETTING UP FOR SB226

THE 2ND TEST CELL BORING. ✓

1430 CONF. CALL HELD IN TRAILER TO DISCUSS WEEKLY PROGRESS. THE PARTICIPANTS ARE ME, PETER VAGT, CARTER HELM (B+V) (IN THE TRAILER), ROB LANTZ (ON CELL PHONE), SHERI BIANCHIN (USEPA), HOLLY GREJDA (DEM), RON FRENNER (CRA). DISCUSSED BARRIER WALL, UPPER + LOWER AQUIFER INVEST., SCHEDULE. -

1525 AT SB226, EFD CONTINUES TO DRILL IN LEVEL B. THIS BORING IS DOWN TO ~20', AND IT HAS SOME STAINING, BUT RELATIVELY MUCH LESS WASTE THAN SB 224. ✓

1600 SB226 COMPLETE, CLAY AT 27'.

1610 CALLED SHERI BIANCHIN TO DISCUSS CONF CALL. SHE SAID

MAM 2/7/96

Matt Mammali

67

TUE. 2/7/96

SHE WILL GET BACK TO ME WITH ANY QUESTIONS AFTER SHE + HOLLY DISCUSS THE SITE IN MORE DETAIL. 1645 P. VAGT HAS SAID WORK WILL GO THRU NEXT WEEK. I WILL CHECK B+V AVAILABILITY FOR COVERAGE OF THIS WORK. 1700 OFFSITE FOR THE DAY. ✓

MAM 2/7/96

MAY 2/8/96

Matt Matsumura

0820 ARRIVE ONSITE. TEMP. $+40^{\circ}\text{F}$,
WIND FROM SW, CLOUDY SKIES. PILOT
TEST CELL BORING TO CONTINUE TODAY.
EFO IS SET UP ON SB227, THE
4TH TEST CELL BORING, IN LEVEL B.

0900 AT SB227, THEY ARE DOWN
TO $\sim 10'$. SPLIT SPOONS HAVE NOT
APPEARED STAINED.

0950 SB227 COMPLETE, CLAY
AT 27' DRILLERS ARE GETTING
READY TO DECON - THESE BORINGS
ARE FILLED w/ CUTTINGS + BENT.
CHIPS. LARGE VOID SPACES PREVENT
USE OF GROUT.

1020 ONSITE, EFO IS SETTING
UP FOR A PILOT TEST CELL BORING.
SB145. IT IS LOCATED $\sim 50'$ W. OF
SB110.

1100 AT SB145, A BLuish PAINT-LIKE
LIQUID/PUTTY IS ON THE 13-15
SPLIT SPOON. PHOTO 22 + 23 BLUE
MATERIAL ON SPOON + RODS AT SB145.

1130 SB145 IS COMPLETE. SOME OF THE
BLUE MAT'L ON THE AUGER; IT IS
ALSO SEEN IN LAYERS IN THE SAND.

MAY 2/8/96

MAY 2/8/96

MAY 2/8/96

ABOVE THE CLAY, BUT DOES NOT APPEAR
IN THE CLAY.

1300 AT SB145 LOCATION, HOLE HAS
BEEN BACKFILLED. EFO'S PUMP ON
THEIR PIG HAS A BROKEN PULLEY,
THEY ARE TRYING TO GET A PART
TO FIX IT. THEY CAN'T DRILL
UNTIL THEY GET IT FIXED.

PHOTO 1 ROLL 2 FACING W. BLUE PAINT-
LIKE MATERIAL ON AUGERS FROM
SB145.

1355 AT IW5, PAUL HAS OPENED
THE WELL CAP. WELL RISER LOOKS
LIKE GALVANIZED 2" PIPE. WATER
LEVEL MEASURED W/ AN OIL/WATER
INTERFACE PROBE: 3.37' BELOW TOP OF
CASING. NO OIL ACCORDING TO THE
PROBE. PID READ $\sim 30-40$ (AZ MAX)

AT THE WELL OPENING. AN OBSTRUCTION
PREVENTED THE TAPE FROM GOING
MORE THAN 3.7' B.T.O.C. PHOTO 2
ROLL 2 FACING NW, IW-5 LOCATION
AT NE CORNER OF THE BUNDING BLDG.

1420 AT IW6, AT S. EDGE OF
THE OFFICE BLDG. RISER PIPE

MAY 2/8/96

MAN 2/8/96

PROBES ~2' FROM GROUND SURFACE. WATER LEVEL IS ~535' B.T.O.C. A WHITISH-COLORED COATING WAS SPLATTERED ON THE PROBE OF THE OIL/WATER PROBE. PHOTO 3 CLOSE UP OF THE OIL/WATER PROBE, WITH WHITE SPLATTERING ON PROBE. NO BOTTOM-LEVEL WILL BE TAKEN, TO PREVENT THE POSSIBLE CARRYING OF CONTAM. DEEPER INTO THE AQUIFER. -

A READING OF 1.2 TO 1.6 PPM WAS FOUND AT THE TOP OF THE CASING WHEN THE CAP WAS REMOVED. -

1440 AT SB^{MAN}146, EED IS DRILLING IN LEVEL B. THIS IS THE SECOND ONSITE TEST CELL BORING. -

1520 SB146 IS COMPLETE. SOME ODORS WERE EVIDENT, BUT NO OBVIOUS CONTAMINATION, AS IN SB145. -

1540 STARTING SB147, THE 3RD ONSITE PILOT TEST CELL BORING. THEY WILL DOWNGRADE FROM LEVEL B TO LEVEL D BECAUSE THE FIRST 2 HAD NO PID READINGS HIGH ENOUGH TO REQUIRE

MAN 2/8/96

MAN 2/8/96

LEVEL B ✓

1615 AT SB147, HITTING CONCRETE AT ~1' B.L.S. THEY HAVE MADE A FEW ATTEMPTS AT GETTING THROUGH, FINALLY SUCCEEDING. -

1640 SB147 IS COMPLETE. CLAY AT ~24" SOME ODORS, GRAYISH STAINING, BUT NO RICE PRODUCT CONTAMINATION

1705 DRILLERS ARE BACKFILLING THE HOLE AT SB147. -

1710 LEAVE SITE FOR THE DAY. -

MAN 2/8/96

FRIDAY Matt Martens 11
~~FRID~~ 2/9/96

0820 ARRIVE ONSITE. TEMP ~40°F, CLEAR
SKIES. FEO TO CONTINUE PILOT TEST
CELL BORING.

0900 ONSITE AT SB148, THE LAST (4TH)
TEST CELL BORING. DRILLERS ARE WORKING
IN LEVEL C. BORING IS DOWN ABOUT 15'.
DRILLERS ARE POUNDING A SPILT SPOON.

0940 SB148 IS COMPLETE. CLAY WAS
HIT ~22.5'. SOME OILY SHEEN WAS OBSERVED.
NO HEAVY PRODUCT WAS ON AUGERS. DAVE
SMD HE HAD THE WORKERS IN LEVEL C
BECAUSE OF INTERMITTENT PID READINGS
ABOVE 5 PPM.

1000 ONSITE PCB KITS SHOWED PCBs
> 10 PPM IN BORINGS 138 AND 143.
143 HAD VOCs AT ~11000 PPM. 143 IS
LOCATED ALONG THE N. EDGE OF THE
ALIGNMENT. PHOTO 4 FACING NORTH.
SOIL BORING LOCATION SB143. PIPING +
BUILDINGS PREVENTING FURTHER NORTH
BORING, UNLESS LOCATED ~100' FURTHER
NORTH.

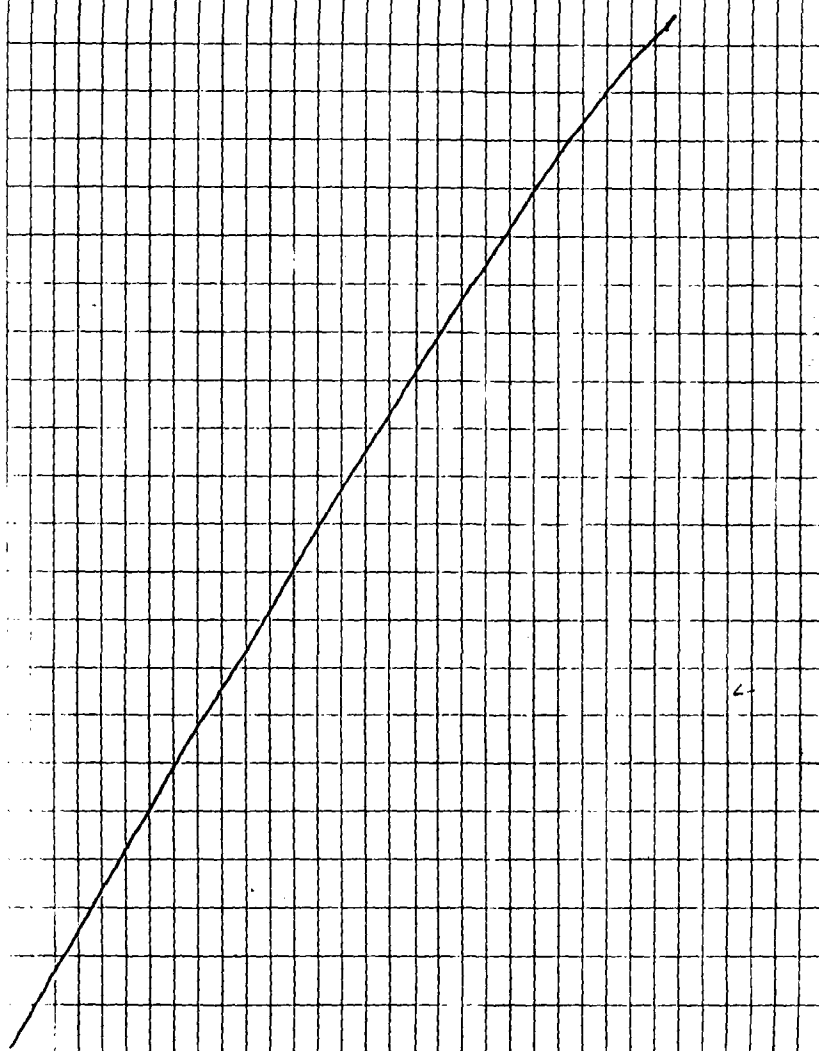
1030 FEO TO QUIT DRILLING EARLY,
(ALREADY DONE). THEY WILL LEAVE
AS SOON AS THEY ARE DONE w/ DECON.

MAM 2/9/96

2/9/96 Matt Martens

73

THEY WILL RESUME DRILLING ON MON.
IN THE LATER PART OF THE MORNING.
I GO OFFSITE FOR THE DAY.



MAM 2/9/96

74. MON 2/12/96

1030 ONSITE AT TRAILER AREA. TEMP.
~ 25°F, WIND FROM SE. MET W/
PETER VAGT & DAVE PIECZYNSKI
OF M.W. E.F. DRILLERS ARE NOT
ONSITE YET. DAVE WILL MEET W/
JOHN ROMAN (ACS) TO DETERMINE
UTILITY LOCATIONS FOR THE NEW
ALIGNMENT. -

1120 BECAUSE OF UTILITY PROBLEMS AND DETERMINING BETTER LOCATIONS, E. F. WILL DRILL OFFSITE FIRST, AT THE W. PERIMETER OF THE NEW ALIGNMENT, JUST S. OF THE RR TRACKS.

1230 E F DRILLING AT SB 223
DOWN TO ~ 8' NO OILY CONTAM INH2O1Y
OR BLACK STAINING SO FAR. -

1300 SB223 COMPLETE. CLAY AT
14' GRAY SAND ABOVE CLAY DID NOT
APPEAR TO HAVE OIL STAINS. SOME
ODORS EVIDENT IN 6' TO 8' DEPTHS

1400 E/F DRILLING (AT 8' TO 10' DEPTH) AT SB149, LOCATED AT THE N. EDGE OF THE LOADING DOCK AREA. SOME GREEN/GRAY STAINING IN THE 8' TO 10' SPUR SPOOD SAMPLE. NO HEAVY

MAM 2/12/96

Matt Kandrak

75

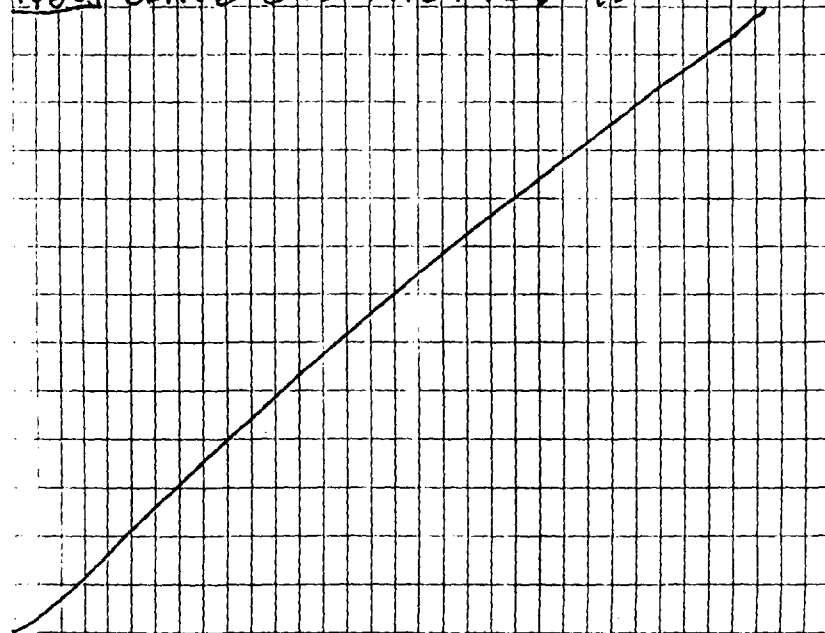
MON 2/12

STAINING TROUGH. —

1520 SB149 DOWN TO 23', CURRY FROM
21' TO 23' BORING COMPLETE, DRILLERS
WILL GRAB + BACKFILL PHOTO 5
FACING E. DRILLING AT SB149,

1600 NO MORE DRILLING TODAY. TOMORROW
THEY WILL CONTINUE ALONG THE ALIGNMENT
ALONG THE E. PERIMETER OF THE
PROPOSED BARRIER WALL. THEY SHOULD
FINISH DRILLING BY TUE. AFTERNOON,
AND HAVE GC/POB ANALYSES BY WEDNESDAY.

1630 LEAVE SITE FOR THE DAY. —



May 21/2/96

Matt Mastromarino

TUE 2/13/96

0800 ARRIVE ON SITE. TEMP. ~ 30°F, CLOUDY SKIES. EIP IS SET UP AT SB150, ALONG THE E. BARRIER WALL PERIMETER. THE BORING IS S. OF THE ACS FENCE, BUT N. OF THE RR TRACKS. -

0830 SB150 DOWN TO ~ 12'. SOME CREOSOTE-TYPE ODOOR IN 6' TO 8' SPLIT SPOON, IN GRAY SAND. NO OBVIOUS OILY CONTAMINATION, THOUGH. -

0920 SB150 COMPLETE AFTER 21' TO 23' SPLIT SPOON. STIFF GRAY CLAY IS EVIDENT. GRAY SAND ABOVE CLAY. NO BLACK STAINING WAS SEEN, BUT SAND WAS GRAY, TYPICAL OF OTHER BORINGS. -

1000 SETTING UP AT SB151, THE FURTHEST EAST AND NORTH OF THE BORINGS ON SITE. -

1025 SB151 DOWN TO ~ 12'. PHOTO 6 ROLL 2 CLOSE UP OF THE 3' TO 5' SPLIT SPOON SAMPLE FROM SB151, SHOWING THE COLOR CHANGE FROM CLEAN BROWN TO GRAY SAND. -

1035 SB151 DRILLING CONTINUES, USING 3-INCH SPLIT SPOONS FOR CONTINUOUS SAMPLING, BECAUSE ADD'L SOIL VOLUME

MAN 2/13/96

MATT MASTROMARINO

TUE 2/13/96

77

IS NECESSARY FOR GEOTECHNICAL BORINGS. PHOTO 7 ROLL 2 FACING NE SB151 DRILLING LOCATION. DRILLER IS ADDING WATER TO THE AUGER, TO PREVENT HEAVING SANDS FROM BLOWING INTO THE AUGER. PHOTO TAKEN FROM THE NE CONCRETE PLATFORM LOADING DOCK OF THE WAREHOUSE BUILDING. -

1100 A VERY SOUR ODOOR IS FOUND IN SB151 SAMPLES AT ~ 18'. PID READINGS ARE ~ 3000 PPM AT THE 19' TO 21' INTERVAL. -

1120 DRILLERS ARE PUSHING A SHELBY TUBE AT SB151 INTO CLAY AT ~ 23' TO 25' INTERVAL FOR GEOTECHNICAL ANALYSES. -

1145 SB151 IS COMPLETE, DRILLERS ARE GROUTING THE HOLE. -

1210 DRILLERS ARE DECONNING AUGERS FOR SB152. -

1410 AT SB152, NEAR THE NE CORNER OF THE OFFICE BLDG. -

1435 SB152 DOWN TO 8' MOSTLY GRAY/BROWN SAND SO FAR. -

1500 PHOTO 8 ROLL 2 FACING S.

MAN 2/13/96

Matt Mubarek

TUE 2/13/96

DRILLERS POUNDING A SPLIT SPOON AT
SB152 OFFICE BLDG IS VISIBLE AT
RIGHT. ✓

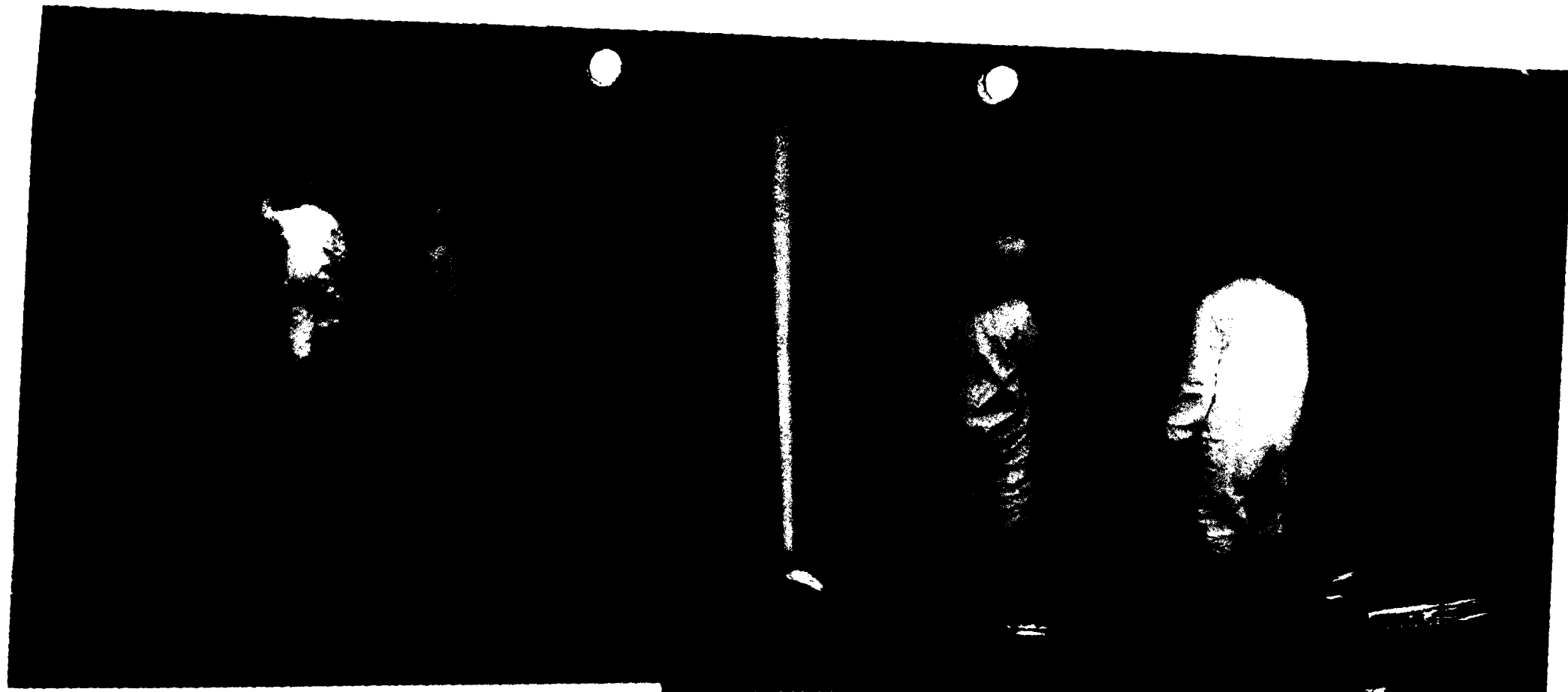
1520 SB152 DOWN TO 14' IN
GRAY SAND, SOME PROPANE-LIKE
ODORS EVIDENT. ✓

1545 SB152 DOWN TO 21' TO 23'
SPLIT SPOON. IN A GRAY CLAYEY
SILT. BORING IS DONE; DRILLERS
GETTING GROUT READY. ✓

1615 DRILLERS ARE GROUTING SB152.
MARK AND DAVE SAID THEY SHOULD HAVE
PCB & VOC DATA BY TOMORROW. NO DRILLING
IS LIKELY BECAUSE ALL BARRIER WALL
BORINGS ARE DONE. ✓

1630 LEAVE SITE FOR THE DAY. ✓

MAN 2/13/96



Site: American Chemical Services, Inc. RD/ERA

Proj. #: 71670

Roll: 1 Photo #: 1

Date: 1/18/96 Time: 0830

Photographer: Matt Mastronardi

Description: Facing southeast. Drillers are retrieving the 6' to 8' split spoon at SB104 along the ACS railroad spur. Black stained cuttings are visible on plastic in the foreground.

Site: American Chemical Services, Inc. RD/ERA

Proj. #: 71670

Roll: 1

Date: 1/18/96 Photo #: 2

Time: 1115

Photographer: Matt Mastronardi

Description: Facing southeast. Drilling at SB106; stained cuttings are evident on the surface.

Site: American Chemical Services, Inc. RD/ERA

Proj. #: 71670

Roll: 1 Photo #: 3

Date: 1/18/96 Time: 1115

Photographer: Matt Mastronardi

Description: Facing northwest. Soil boring SB106, as a soil sample is collected from the black-stained split spoon from 3-1/2 to 5-1/2 feet below land surface.

Site: American Chemical Services, Inc. RD/ERA

Proj. #: 71670

Roll: 1 Photo #: 4

Date: 1/19/96 Time: 0930

Photographer: Matt Mastronardi

Description: Facing south. Collection of a soil sample from SB108, from a depth of approximately 15 feet below land surface. The grayish sand is typical of the soil found at this depth onsite.

Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670
Roll: 1
Date: 1/19/96
Photographer: Matt Mastronardi
Description: Facing northwest. Drilling at offsite location SB205,
adjacent to the Griffith Landfill.

Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670
Roll: 1
Date: 1/19/96
Photographer: Matt Mastronardi
Description: Split spoon sample from SB205 showing stiff gray clay,
collected from approximately 22' below land surface.

Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670

Roll: 1

Date: 1/19/96

Photo #: 7

Time: 1435

Photographer: Matt Mastronardi

Description: Field analyses of volatile organics were performed with these 2 gas chromatograph units shown inside the field trailer.

Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670

Roll: 1

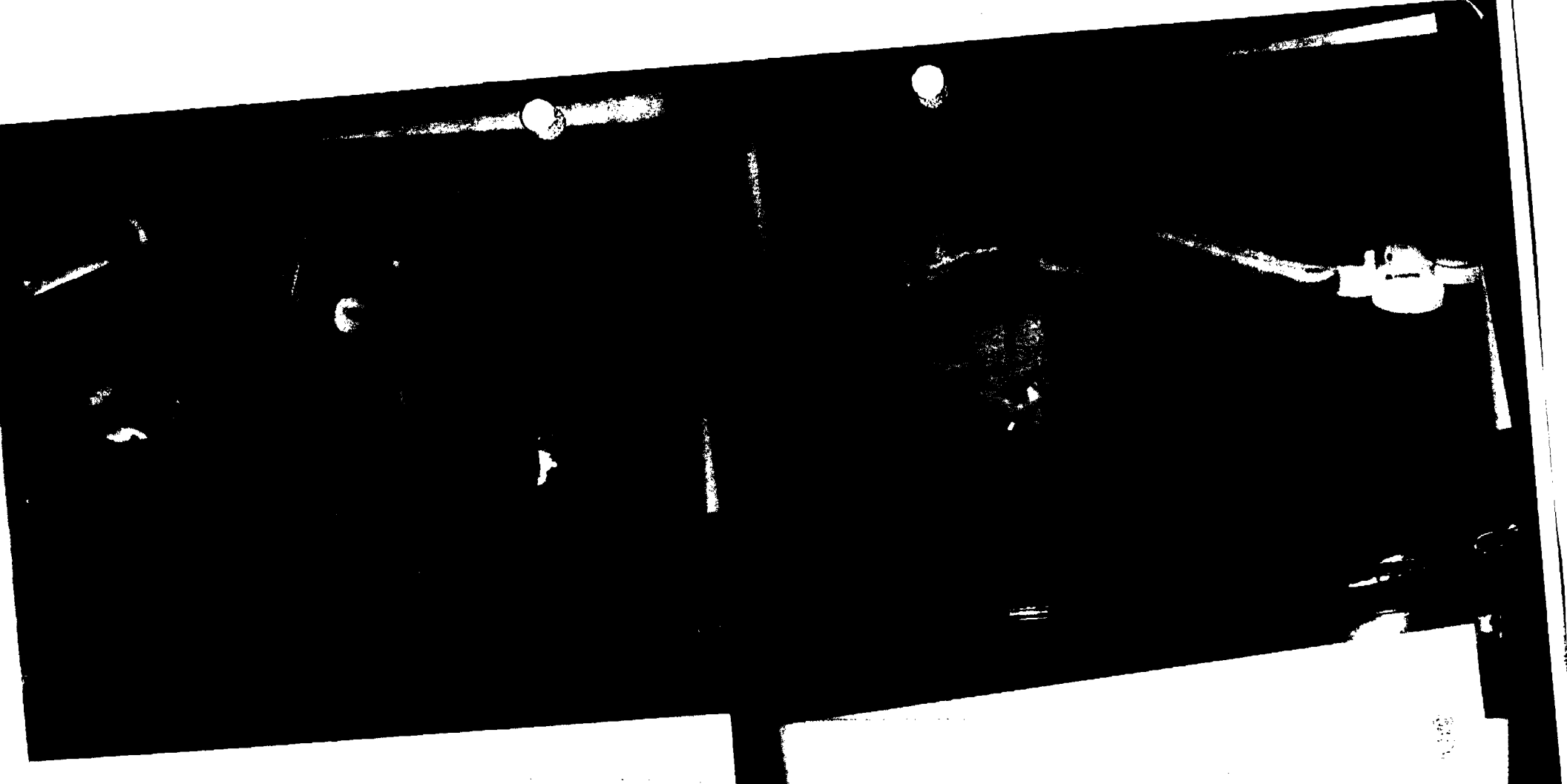
Date: 1/22/96

Photo #: 8

Time: 1225

Photographer: Matt Mastronardi

Description: Close-up view of silty sand in a split spoon from SB206, from a depth of 21' to 23' below land surface. This sand is representative of the heaving sands which often flowed into hollow-stem augers during drilling.



Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670

Roll: 1 Photo #: 9
Date: 1/22/96 Time: 1430

Photographer: Matt Mastronardi

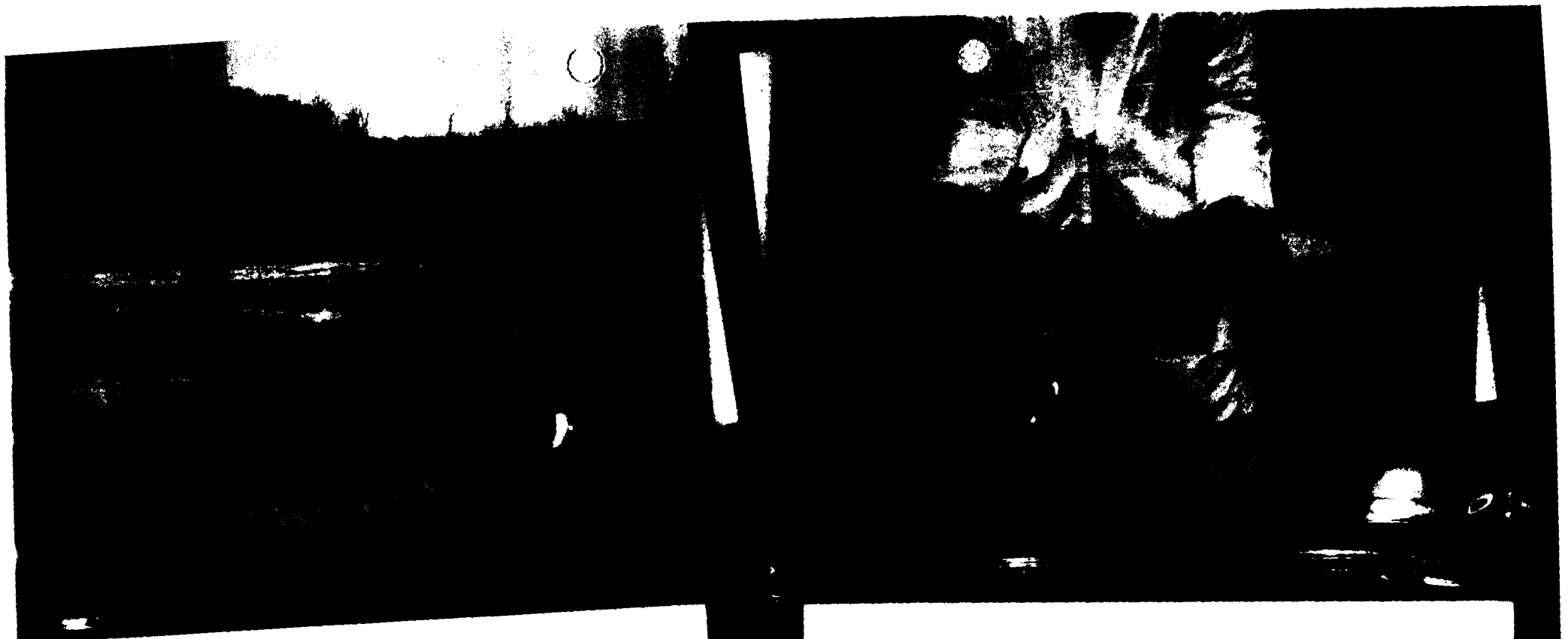
Description: Close-up view of the 11' to 13' split spoon from SB207, in the offsite area near the Griffith Landfill. The sampler was almost completely filled with wood.

Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670

Roll: 1 Photo #: 10
Date: 1/23/96 Time: 1030

Photographer: Matt Mastronardi

Description: Close-up view of a jar of purple-stained soil from onsite boring SB112, collected from a depth of about 7' below land surface.



Site: American Chemical Services, Inc. RD/ERA

Proj. #: 71670

Roll: 1 Photo #: 11

Date: 1/24/96 Time: 1000

Photographer: Matt Mastronardi

Description: Facing southeast. Drilling at SB205a, on the Griffith Landfill access road. SB205a was drilled about 40 feet west of SB205, which had total VOC concentrations near 100,000 ppm.

Site: American Chemical Services, Inc. RD/ERA

Proj. #: 71670

Roll: 1

Date: 1/25/96

Photographer: Matt Mastronardi

Photo #: 12

Time: 0935

Description: Split spoon sample showing (visibly) clean sand from SB212, located along the eastern edge of the offsite boundary wall alignment. The sample was collected from approximately 9' to 11' below land surface.



Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670
Roll: 1

Date: 1/25/96
Photographer: Matt Mastronardi

Photo #: 13
Time: 0935

Description: Split spoon sample from 15' to 17' below land surface at SB212, which shows stained sand occurring near the water table.



Site: American Chemical Services, Inc. RD/ERA
Proj. #: 71670

Roll: 1
Date: 1/26/96

Photo #: 14
Time: 1150

Photographer: Matt Mastronardi

Description: Facing east. Drilling at onsite boring SB125, an abandoned corrugated plastic water line was encountered. Oily black material was also brought up with the cuttings.



Site: American Chemical Services, Inc. RD/EKA
Proj. #: 71670
Roll: 2 Photo #: 8
Date: 2/13/96 Time: 1500
Photographer: Matt Mastronardi
Description: Facing south. Drillers driving a split spoon at SB152, near the ACS office on the right.